

**BONE ENHANCING COMPOSITE****ABSTRACT**

A bone-enhancing composite material comprising synthetic apatite and at least one supplementary bioactive agent selected from a biocompatible polymer and an anti-resorption agent added *ab initio*, methods of preparing said composite and uses thereof are provided. The physical and biological properties of the composite are controlled by the addition of specific supplementary bioactive agents as well as optional therapeutic agents. The composite may be used as a powder, a paste or an implant.